5-Camphenyl acetate

Inchi: InChI=1S/C12H18O2/c1-8-11(3,4)10-5-6-12(8,7-10)14-9(2)13/h10H,1,5-7H2,2-4H3
InchiKey: XCRWYCLRGYBKLG-UHFFFAOYSA-N
Formula: C12H18O2
SMILES: C=C1C2(OC(C)=O)CCC(C2)C1(C)C
Mol. weight [g/mol]: 194.27

Physical Properties

Property code	Value	Unit	Source
gf	-39.97	kJ/mol	Joback Method
hf	-301.99	kJ/mol	Joback Method
hfus	11.11	kJ/mol	Joback Method
hvap	49.01	kJ/mol	Joback Method
log10ws	-2.98		Crippen Method
logp	2.684		Crippen Method
mcvol	161.360	ml/mol	McGowan Method
pc	2595.13	kPa	Joback Method
ripol	1660.00		NIST Webbook
ripol	1660.00		NIST Webbook
tb	562.97	K	Joback Method
tc	780.60	K	Joback Method
tf	386.76	K	Joback Method
vc	0.617	m3/kmol	Joback Method

Temperature Dependent Properties

Property code	Value	Unit	Temperature [K]	Source
cpg	416.62	J/mol×K	562.97	Joback Method
cpg	433.52	J/mol×K	599.24	Joback Method
cpg	449.31	J/mol×K	635.51	Joback Method
cpg	464.24	J/mol×K	671.79	Joback Method
cpg	478.50	J/mol×K	708.06	Joback Method
cpg	492.34	J/mol×K	744.33	Joback Method
cpg	505.96	J/mol×K	780.60	Joback Method

Sources

NIST Webbook:	http://webbook.nist.gov/cgi/cbook.cgi?ID=R320657&Units=SI
Crippen Method:	http://pubs.acs.org/doi/abs/10.1021/ci990307l
Crippen Method:	https://www.chemeo.com/doc/models/crippen_log10ws
Joback Method:	https://en.wikipedia.org/wiki/Joback_method
McGowan Method:	http://link.springer.com/article/10.1007/BF02311772

Legend

cpg:	Ideal gas heat capacity
gf:	Standard Gibbs free energy of formation
hf:	Enthalpy of formation at standard conditions
hfus:	Enthalpy of fusion at standard conditions
hvap:	Enthalpy of vaporization at standard conditions
log10ws:	Log10 of Water solubility in mol/l
logp:	Octanol/Water partition coefficient
mcvol:	McGowan's characteristic volume
pc:	Critical Pressure
ripol:	Polar retention indices
tb:	Normal Boiling Point Temperature
tc:	Critical Temperature
tf:	Normal melting (fusion) point
vc:	Critical Volume